

# JAVA.IO.FILEINPUTSTREAM CLASS

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## Introduction

The **java.util.FileInputStream** class obtains input bytes from a file in a file system. What files are available depends on the host environment. Following are the important points about FileInputStream:

- This class is meant for reading streams of raw bytes such as image data.
- For reading streams of characters, use *FileReader*.

## Class declaration

Following is the declaration for **java.util.FileInputStream** class:

```
public class FileInputStream
    extends InputStream
```

## Class constructors

S.N.	Constructor & Description
1	<b>FileInputStream(File file)</b> This creates a FileInputStream by opening a connection to an actual file, the file named by the File object <i>file</i> in the file system.
2	<b>FileInputStream(FileDescriptor fdObj)</b> This creates a FileInputStream by using the file descriptor <i>fdObj</i> , which represents an existing connection to an actual file in the file system.
3	<b>FileInputStream(String name)</b> This creates a FileInputStream by opening a connection to an actual file, the file named by the path name <i>name</i> in the file system.

## Class methods

S.N.	Method & Description
1	<a href="#"><u>int available()</u></a> This method returns an estimate of the number of remaining bytes that can be read (or skipped over) from this input stream without blocking by the next invocation of a method for this input stream.
2	<a href="#"><u>void close()</u></a> This method closes this file input stream and releases any system resources associated with the stream.
3	<a href="#"><u>protected void finalize()</u></a> This method ensures that the close method of this file input stream is called when there are no more references to it.

4	<a href="#"><u>FileChannel getChannel()</u></a> This method returns the unique FileChannel object associated with this file input stream.
5	<a href="#"><u>FileDescriptor getFD()</u></a> This method returns the FileDescriptor object that represents the connection to the actual file in the file system being used by this FileInputStream.
6	<a href="#"><u>int read()</u></a> This method reads a byte of data from this input stream.
7	<a href="#"><u>int read(byte[] b)</u></a> This method reads up to <i>b.length</i> bytes of data from this input stream into an array of bytes.
8	<a href="#"><u>int read(byte[] b, int off, int len)</u></a> This method reads up to <i>len</i> bytes of data from this input stream into an array of bytes.
9	<a href="#"><u>long skip(long n)</u></a> This method skips over and discards n bytes of data from the input stream.

## Methods inherited

This class inherits methods from the following classes:

- java.util.InputStream
- java.util.Object